WEST Search History

DATE: Wednesday, September 03, 2003

Set Name side by side	Query	Hit Count	Set Name result set
DB=USPT,PGPB,JPAB,EPAB,DWPI; PLUR=YES; OP=OR			
L6	L5 and gfp adj4 (folding or reassemb?5)	1	L6
L5	(anti parallel) adj3 leucine adj3 zipper	12	L5
L4	L3 and leu adj5 zipper	0	L4
L3	L2 and reassembly	626	L3
L2	L1 and GFP or (green adj3 fluorescent adj3 protein)	6447	L2
L1	protein adj5 fragment	26077	L1

END OF SEARCH HISTORY

09/853897

L3 ANSWER 1 OF 2 CA COPYRIGHT 2003 ACS
TI Methods of detecting interactions between proteins, peptides or libraries thereof using fusion proteins
IN **Hamilton, Andrew D.**; Ghosh, Indraneel; Regan, Lynne
SO PCT Int. Appl., 48 pp.
CODEN: PIXXD2
PY 2001
2002
2001
2002
AB The present invention discloses a method of reconstituting, folding, or reassembling peptides or other binding pairs into a functionally active protein or other complex using an antiparallel leucine zipper. The present invention also provides assays using fusion proteins comprising GFP fragments and test polypeptides for investigating protein-protein interactions.

L3 ANSWER 2 OF 2 CA COPYRIGHT 2003 ACS
TI Antiparallel Leucine Zipper-Directed Protein Reassembly: Application to the **Green Fluorescent** Protein
AU Ghosh, Indraneel; **Hamilton, Andrew D.**; Regan, Lynne
SO Journal of the American Chemical Society (2000), 122(23), 5658-5659
CODEN: JACSAT; ISSN: 0002-7863
PY 2000
AB A general method for reassembly of protein fragments mediated by noncovalent assocn. of antiparallel leucine zippers was described, using **green fluorescent** protein (GFP) from Aequorea victoria as an example. GFP was dissected between residues 157-158, a position that has been shown to accommodate a 20-residue amino acid insertion; the fragments were termed NGFP (N-terminal-contg.) and CGFP(C-terminal-contg.), resp. Two designed helixes, NZ or CZ, were attached, NZ to the NGFP C-terminal by a six-residue linker, and CZ to the CGFP N-terminal by a four-residue linker, to generate fragments NZGFP and CZGFP, resp. Genes coding for NZGFP and CZGFP were cloned and expressed using std. methods, and the proteins isolated. Equimolar amts. of the NZGFP and CZGFP fragments were denatured and dialyzed, and the reassembled peptides were visibly green and had fluorescence excitations and emission spectra identical to that of parent GFP.

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